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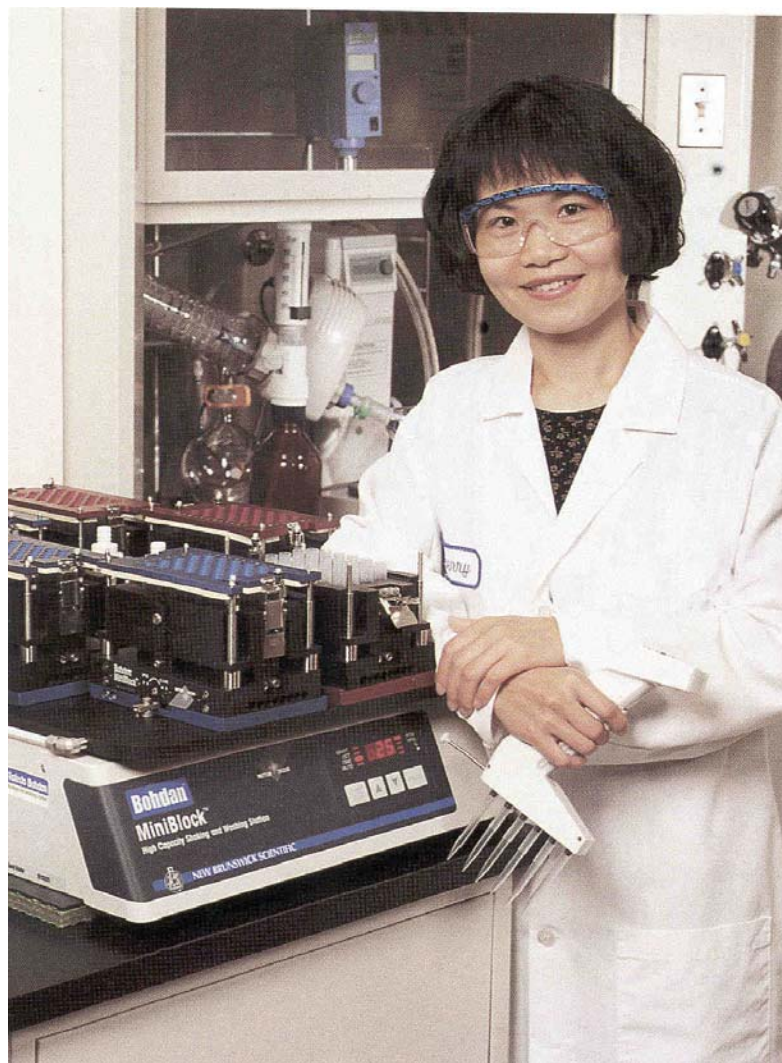
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MiniBlock[®] Parts List

DC13602026 iss2 Jan 2003 (Effective January 1, 2003)

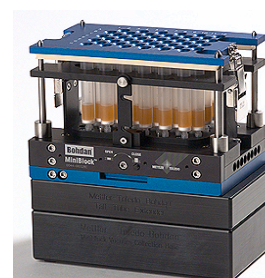


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Overview

The MiniBlock product line is a multifunctional synthesis platform designed for:

- Solid Phase Synthesis
- Solution Phase Synthesis
- IRORI Kan Cleavage
- Solid Phase Extraction (SPE)


All racks conform to microtiter plate size and shape, providing flexibility for collection, compatibility with dry down devices and ease of use. Using the microtiter plate footprint also keeps the overall system footprint small, making it automation friendly.

The unique valve body design allows the opening and closing of all vessels at the same time. Supporting parts and accessories allow the following functionalities:


- Reactions performed under Inert Atmosphere
- Robust Mixing via Orbital Shaking
- Solvent Dispensing
- Resin and Scavenger Resin Dispensing

MiniBlock reactors and supporting parts are also available in *Personal Sets* and *Synthesis Packages*, which result in cost savings. The Personal set is configured around 2 MiniBlocks. Synthesis Packages are configured around 6 MiniBlocks.


MiniBlock® Personal Sets

PART NO.	PERSONAL SETS																																																														
	<p>Personal Set: 48 or 24-Position (with Disposable Polypropylene Reaction Tubes)†</p> <p>Personal sets contain all components necessary for 96 or 48 parallel reactions. Two MiniBlocks configured for 48 or 24 positions each, heat transfer blocks, shaking and washing station, vacuum base for product collection and consumables, are all included and priced favorably over the same items ordered separately. MiniBlocks can be chosen as one of each color (red and blue) or both blocks the same color.</p> <p>Red/Blue combination is required for collection into a 96-position format.</p> <p>† Glass reaction tubes are also available. Please order all items separately. For glassware, see pages 10 and 11.</p> <p>Package Contents:</p> <table><thead><tr><th>Quantity</th><th>Description</th></tr></thead><tbody><tr><td>2</td><td>MiniBlock Synthesizers (Choose Format, Array and Volume Below)</td></tr><tr><td>1</td><td>Compact Shaking and Washing Station (Choose Voltage Below)</td></tr><tr><td>2</td><td>Heat Transfer Block *</td></tr><tr><td>1</td><td>Vacuum Collection Base</td></tr><tr><td>2</td><td>Tall Tube Extender</td></tr><tr><td>1</td><td>Recirculator Manifold * (2-Position)</td></tr><tr><td>1</td><td>Counter Weight for Shaking Solution</td></tr><tr><td>1</td><td>Air Push Assist Device</td></tr><tr><td>1</td><td>6 Position Solvent Dispenser</td></tr><tr><td>1</td><td>Small Consumables Kit: (Detailed Below)</td></tr></tbody></table> <table><thead><tr><th># of Packs</th><th>Description</th><th>Quantity</th></tr></thead><tbody><tr><td>2</td><td>Pinch Tube Inserts (50/Pkg)</td><td>100</td></tr><tr><td>2</td><td>Multi Layer Septa (5/Pkg)</td><td>10</td></tr><tr><td>2</td><td>Compression Cord (8/Pkg)</td><td>16</td></tr><tr><td>2</td><td>Red Plugs (50/Pkg)</td><td>100</td></tr></tbody></table> <p>48-Position Includes: 8 packs Polypropylene Reaction Tubes, 4mL (50/Package)</p> <p>24-Position Includes: 8 packs Polypropylene Reaction Tubes, 10mL (25/Package)</p> <p><input checked="" type="checkbox"/> Please Choose One of the Following Personal Sets:</p> <p>115V</p> <table><tbody><tr><td>13820013</td><td><input type="checkbox"/> Personal Set 48-Position, (4 mL) 115V: 1-Blue 1-Red</td></tr><tr><td>13820011</td><td><input type="checkbox"/> Personal Set 48-Position, (4 mL) 115V: 2-Blue</td></tr><tr><td>13820012</td><td><input type="checkbox"/> Personal Set 48-Position, (4 mL) 115V: 2-Red</td></tr><tr><td>13820048</td><td><input type="checkbox"/> Personal Set 24-Position, (10 mL) 115V: 1-Blue 1-Red</td></tr><tr><td>13820049</td><td><input type="checkbox"/> Personal Set 24-Position, (10 mL) 115V: 2-Blue</td></tr><tr><td>13200187</td><td><input type="checkbox"/> Personal Set 24-Position, (10 mL) 115V: 2-Red</td></tr></tbody></table> <p>230V</p> <table><tbody><tr><td>13820095</td><td><input type="checkbox"/> Personal Set 48-Position, (4 mL) 230V: 1-Blue 1-Red</td></tr><tr><td>13820094</td><td><input type="checkbox"/> Personal Set 48-Position, (4 mL) 230V: 2-Blue</td></tr><tr><td>13820093</td><td><input type="checkbox"/> Personal Set 48-Position, (4 mL) 230V: 2-Red</td></tr><tr><td>13200194</td><td><input type="checkbox"/> Personal Set 24-Position, (10 mL) 230V: 1-Blue 1-Red</td></tr><tr><td>13200195</td><td><input type="checkbox"/> Personal Set 24-Position, (10 mL) 230V: 2-Blue</td></tr><tr><td>13820053</td><td><input type="checkbox"/> Personal Set 24-Position, (10 mL) 230V: 2-Red</td></tr></tbody></table> <p>▲ Collection racks and containers are sold separately.</p> <p>▲* For temperatures >80°C, high temperature components must be used. Contact an AutoChem product specialist for more information.</p>	Quantity	Description	2	MiniBlock Synthesizers (Choose Format, Array and Volume Below)	1	Compact Shaking and Washing Station (Choose Voltage Below)	2	Heat Transfer Block *	1	Vacuum Collection Base	2	Tall Tube Extender	1	Recirculator Manifold * (2-Position)	1	Counter Weight for Shaking Solution	1	Air Push Assist Device	1	6 Position Solvent Dispenser	1	Small Consumables Kit: (Detailed Below)	# of Packs	Description	Quantity	2	Pinch Tube Inserts (50/Pkg)	100	2	Multi Layer Septa (5/Pkg)	10	2	Compression Cord (8/Pkg)	16	2	Red Plugs (50/Pkg)	100	13820013	<input type="checkbox"/> Personal Set 48-Position, (4 mL) 115V: 1-Blue 1-Red	13820011	<input type="checkbox"/> Personal Set 48-Position, (4 mL) 115V: 2-Blue	13820012	<input type="checkbox"/> Personal Set 48-Position, (4 mL) 115V: 2-Red	13820048	<input type="checkbox"/> Personal Set 24-Position, (10 mL) 115V: 1-Blue 1-Red	13820049	<input type="checkbox"/> Personal Set 24-Position, (10 mL) 115V: 2-Blue	13200187	<input type="checkbox"/> Personal Set 24-Position, (10 mL) 115V: 2-Red	13820095	<input type="checkbox"/> Personal Set 48-Position, (4 mL) 230V: 1-Blue 1-Red	13820094	<input type="checkbox"/> Personal Set 48-Position, (4 mL) 230V: 2-Blue	13820093	<input type="checkbox"/> Personal Set 48-Position, (4 mL) 230V: 2-Red	13200194	<input type="checkbox"/> Personal Set 24-Position, (10 mL) 230V: 1-Blue 1-Red	13200195	<input type="checkbox"/> Personal Set 24-Position, (10 mL) 230V: 2-Blue	13820053	<input type="checkbox"/> Personal Set 24-Position, (10 mL) 230V: 2-Red	
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MiniBlock® Personal Sets

PART NO.	PERSONAL SETS																																						
	<p>Personal Sets: 12 or 6-Position (with Glass Reaction Tubes)</p> <p>Personal sets are designed to allow flexibility for reaction array and vessel volume. Two MiniBlocks configured for 12 or 6 positions, heat transfer blocks, shaking and washing station, vacuum base for product collection and consumables, are all included and priced favorably over the same items ordered separately. MiniBlocks can be chosen as one of each color (red and blue) or both blocks the same color.</p> <p>Package Contents:</p> <table><tr><th>Quantity</th><th>Description</th></tr><tr><td>2</td><td>MiniBlock Synthesizers (Choose Format, Array and Volume Below)</td></tr><tr><td>1</td><td>Compact Shaking and Washing Station (Choose Voltage Below)</td></tr><tr><td>2</td><td>Heat Transfer Block *</td></tr><tr><td>1</td><td>Vacuum Collection Base</td></tr><tr><td>1</td><td>Tall Tube Extender</td></tr><tr><td>1</td><td>Tall Tube Double Extender</td></tr><tr><td>1</td><td>Recirculator Manifold * (2-Position)</td></tr><tr><td>1</td><td>Counter Weight for Shaking Solution</td></tr><tr><td>1</td><td>Air Push Assist Device</td></tr><tr><td>1</td><td>Small Consumables Kit: (Detailed Below)</td></tr></table> <table><tr><th># of Packs</th><th>Description</th><th>Quantity</th></tr><tr><td>2</td><td>Pinch Tube Inserts (50/Pkg)</td><td>100</td></tr><tr><td>2</td><td>Multi Layer Septa (5/Pkg)</td><td>10</td></tr><tr><td>2</td><td>Compression Cord (8/Pkg)</td><td>16</td></tr><tr><td>2</td><td>Red Plugs (50/Pkg)</td><td>100</td></tr></table> <p>12-Position Includes: 2 packs of 20mL Glass Reaction Tubes (12/package)</p> <p>6-Position Includes: 2 packs of 40mL Glass Reaction Tubes (6/package)</p> <p><input checked="" type="checkbox"/> Please Choose One of the Following Personal Sets:</p> <p>110V</p> <div><div>13820086 13820084 13820085</div><div><input type="checkbox"/> Personal Set 12-Position, (20 mL) 110V: 1-Blue 1-Red <input type="checkbox"/> Personal Set 12-Position, (20 mL) 110V: 2-Blue <input type="checkbox"/> Personal Set 12-Position, (20 mL) 110V: 2-Red</div></div> <div><div>13820092 13820090 13820091</div><div><input type="checkbox"/> Personal Set 6-Position, (40 mL) 110V: 1-Blue 1-Red <input type="checkbox"/> Personal Set 6-Position, (40 mL) 110V: 2-Blue <input type="checkbox"/> Personal Set 6-Position, (40 mL) 110V: 2-Red</div></div> <p>220V</p> <div><div>13820083 13820082 13820081</div><div><input type="checkbox"/> Personal Set 12-Position, (20 mL) 220V: 1-Blue 1-Red <input type="checkbox"/> Personal Set 12-Position, (20 mL) 220V: 2-Blue <input type="checkbox"/> Personal Set 12-Position, (20 mL) 220V: 2-Red</div></div> <div><div>13820089 13820088 13820087</div><div><input type="checkbox"/> Personal Set 6-Position, (40 mL) 220V: 1-Blue 1-Red <input type="checkbox"/> Personal Set 6-Position, (40 mL) 220V: 2-Blue <input type="checkbox"/> Personal Set 6-Position, (40 mL) 220V: 2-Red</div></div> <p> Collection racks and containers are sold separately.</p> <p> * For temperatures >80°C, high temperature components must be used. Contact an AutoChem product specialist for more information.</p>	Quantity	Description	2	MiniBlock Synthesizers (Choose Format, Array and Volume Below)	1	Compact Shaking and Washing Station (Choose Voltage Below)	2	Heat Transfer Block *	1	Vacuum Collection Base	1	Tall Tube Extender	1	Tall Tube Double Extender	1	Recirculator Manifold * (2-Position)	1	Counter Weight for Shaking Solution	1	Air Push Assist Device	1	Small Consumables Kit: (Detailed Below)	# of Packs	Description	Quantity	2	Pinch Tube Inserts (50/Pkg)	100	2	Multi Layer Septa (5/Pkg)	10	2	Compression Cord (8/Pkg)	16	2	Red Plugs (50/Pkg)	100	
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MiniBlock® Synthesis Packages

PART NO.	SYNTHESIS PACKAGES																																																															
	<p>Synthesis Package: 48 and 24-Position</p> <p>A high throughput synthesis package containing all components necessary for up to 288 parallel reactions. Six MiniBlocks configured for 48 or 24 positions each, heat transfer blocks, SPE adapter manifolds, shaking and washing station, vacuum base for product collection, and consumables are all included and priced favorably over the same items ordered separately. MiniBlocks can be chosen as 3 of each color, red and blue, or 6 of the same color.</p> <p>Package Contents</p> <table><tr><th>Quantity</th><th>Description</th></tr><tr><td>6</td><td>MiniBlock Synthesizers (Choose Format, Array and Volume Below)</td></tr><tr><td>1</td><td>High Capacity Shaking and Washing Station (Choose Voltage Below)</td></tr><tr><td>2</td><td>Heat Transfer Block *</td></tr><tr><td>2</td><td>Inert Atmosphere or Inerting/Purging Manifolds†</td></tr><tr><td>2</td><td>SPE Manifolds</td></tr><tr><td>1</td><td>6-Position Solvent Dispenser</td></tr><tr><td>2</td><td>Vacuum Collection Base</td></tr><tr><td>4</td><td>Tall Tube Extender</td></tr><tr><td>1</td><td>Recirculator Manifold * (6-Position)</td></tr><tr><td>4</td><td>Counter Weight for Shaking Solution</td></tr><tr><td>1</td><td>Air Push Assist Device</td></tr><tr><td>1</td><td>Resin Dispenser (48 or 24-Position)</td></tr></table> <table><tr><th># of Packs</th><th>Description</th><th>Quantity</th></tr><tr><td>8</td><td>Pinch Tube Inserts (50/Pkg)</td><td>400</td></tr><tr><td>6</td><td>Multi Layer Septa (5/Pkg)</td><td>30</td></tr><tr><td>6</td><td>Compression Cord (8/Pkg)</td><td>48</td></tr></table> <p>48-Position Includes: 40 packs Polypropylene Reaction Tubes, 4mL (50/Pkg)</p> <p>24-Position Includes: 50 packs Polypropylene Reaction Tubes, 10mL (25/Pkg) 6 packs Red Plugs (50/Pkg)</p> <p>† 48-Position Inert Atmosphere Manifolds will be replaced with 48-Position Inerting / Purging Manifolds in Q2, 2003.</p> <p><input type="checkbox"/> Please Choose One of the Following Synthesis Packages:</p> <p>110V</p> <table><tr><td>13820123</td><td><input type="checkbox"/> Synthesis Package 48-Position 110V: 3-Blue 3-Red</td></tr><tr><td>13820124</td><td><input type="checkbox"/> Synthesis Package 48-Position 110V: 6-Blue</td></tr><tr><td>13820125</td><td><input type="checkbox"/> Synthesis Package 48-Position 110V: 6-Red</td></tr><tr><td>13820054</td><td><input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 110V: 3-Blue 3-Red</td></tr><tr><td>13820055</td><td><input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 110V: 6-Blue</td></tr><tr><td>13820056</td><td><input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 110V: 6-Red</td></tr></table> <p>220V</p> <table><tr><td>13820126</td><td><input type="checkbox"/> Synthesis Package 48-Position 220V: 3-Blue 3-Red</td></tr><tr><td>13820127</td><td><input type="checkbox"/> Synthesis Package 48-Position 220V: 6-Blue</td></tr><tr><td>13820128</td><td><input type="checkbox"/> Synthesis package 48-Position 220V: 6-Red</td></tr><tr><td>13820057</td><td><input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 220V: 3-Blue 3-Red</td></tr><tr><td>13820058</td><td><input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 220V: 6-Blue</td></tr><tr><td>13820059</td><td><input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 220V: 6-Red</td></tr></table> <p>▲ Collection racks and containers are sold separately.</p> <p>▲ * For temperatures >80°C, high temperature components must be used. Contact a Mettler-Toledo product specialist for more information.</p>	Quantity	Description	6	MiniBlock Synthesizers (Choose Format, Array and Volume Below)	1	High Capacity Shaking and Washing Station (Choose Voltage Below)	2	Heat Transfer Block *	2	Inert Atmosphere or Inerting/Purging Manifolds†	2	SPE Manifolds	1	6-Position Solvent Dispenser	2	Vacuum Collection Base	4	Tall Tube Extender	1	Recirculator Manifold * (6-Position)	4	Counter Weight for Shaking Solution	1	Air Push Assist Device	1	Resin Dispenser (48 or 24-Position)	# of Packs	Description	Quantity	8	Pinch Tube Inserts (50/Pkg)	400	6	Multi Layer Septa (5/Pkg)	30	6	Compression Cord (8/Pkg)	48	13820123	<input type="checkbox"/> Synthesis Package 48-Position 110V: 3-Blue 3-Red	13820124	<input type="checkbox"/> Synthesis Package 48-Position 110V: 6-Blue	13820125	<input type="checkbox"/> Synthesis Package 48-Position 110V: 6-Red	13820054	<input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 110V: 3-Blue 3-Red	13820055	<input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 110V: 6-Blue	13820056	<input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 110V: 6-Red	13820126	<input type="checkbox"/> Synthesis Package 48-Position 220V: 3-Blue 3-Red	13820127	<input type="checkbox"/> Synthesis Package 48-Position 220V: 6-Blue	13820128	<input type="checkbox"/> Synthesis package 48-Position 220V: 6-Red	13820057	<input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 220V: 3-Blue 3-Red	13820058	<input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 220V: 6-Blue	13820059	<input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 220V: 6-Red	
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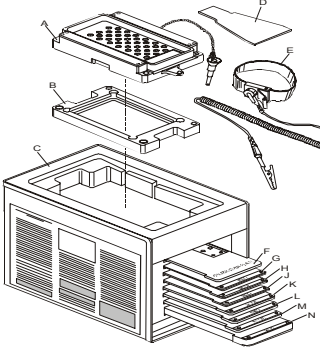
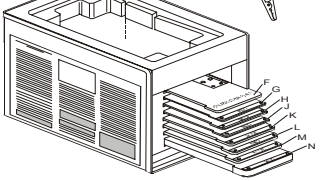
MiniBlock® Individual Items

PART NO.	INDIVIDUAL ITEMS	
<p>13742044 13742043</p> <p>13742200 13742201</p> <p>13742210 13742211</p> <p>13742220 13742221</p>	<p>MiniBlock Reactors</p> <p>Patented reactor with built-in valve design. Available in 48, 24, 12, and 6-position arrays. Reaction vessel volumes are 4mL, 10mL, 20mL and 40mL respectively (not included).</p> <p> <input type="checkbox"/> MiniBlock Reactor Blue: 48-Position <input type="checkbox"/> MiniBlock Reactor Red: 48-Position </p> <p> <input type="checkbox"/> MiniBlock Reactor Blue: 24-Position <input type="checkbox"/> MiniBlock Reactor Red: 24-Position </p> <p> <input type="checkbox"/> MiniBlock Reactor Blue: 12-Position <input type="checkbox"/> MiniBlock Reactor Red: 12-Position </p> <p> <input type="checkbox"/> MiniBlock Reactor Blue: 6-Position <input type="checkbox"/> MiniBlock Reactor Red: 6-Position </p>	
<p>13742005 13742059 13742060 13742061</p>	<p>Heat Transfer Blocks</p> <p>Heating/cooling block, allowing uniform cooling to -40°C, and heating to 120°C*, ± 1°C (at 80°C). Available in 48, 24, 12 and 6-position arrays. Includes quick-disconnect fittings. Also functions as Reflux Layer for XT Reactors</p> <p> <input type="checkbox"/> Heat Transfer Block: 48-Position <input type="checkbox"/> Heat Transfer Block: 24-Position <input type="checkbox"/> Heat Transfer Block: 12-Position <input type="checkbox"/> Heat Transfer Block: 6-Position </p> <p> ▲ * For temperatures >80°C, high temperature components must be used. Contact an AutoChem product specialist for more information. </p>	
<p>13742071 13742072</p> <p>13742004 13742047</p>	<p>Compact Shaking and Washing Station</p> <p>High performance orbital shaker with integrated basins for wash and rinse capability. Customized and configured to provide vigorous vortex mixing for up to 2 MiniBlocks.</p> <p> <input type="checkbox"/> Compact Shaking and Washing Station, 110V* <input type="checkbox"/> Compact Shaking and Washing Station, 220V* </p> <p> ▲ * May require counter weight, (13742012) when used with fewer than 2 blocks. </p> <p>High Capacity Shaking and Washing Station</p> <p>High performance orbital shaker with integrated basins for wash and rinse capability. Customized and configured to provide vigorous vortex mixing for up to 6 MiniBlocks.</p> <p> <input type="checkbox"/> High Capacity Shaking and Washing Station, 110V* <input type="checkbox"/> High capacity Shaking and Washing Station, 220V* </p> <p> ▲ * May require counter weight, (13742012) when used with fewer than 6 blocks. </p>	 
<p>13742094 13742095</p>	<p>MiniBlock Magnetic Stirrer</p> <p>Very powerful 2 position magnetic stirrer can simultaneously stir all vessels in 2 MiniBlocks. Effective for 48 position MiniBlocks and all other formats. Precision ramping and control facilitates magnetic coupling and ensures excellent agitation. Stirrer deck has twin wash basins for vacuum solvent washing.</p> <p> ▲ Contact a Mettler-Toledo AutoChem specialist for stir bar recommendations. </p> <p> <input type="checkbox"/> Stand-alone 2-Position Magnetic Stirrer </p> <p> <input type="checkbox"/> Workstation 2-Position Magnetic Stirrer For use with automation units. Price does not include engineering and design, such as modifications to workstations. Please contact a Mettler-Toledo AutoChem specialist for more information. </p>	


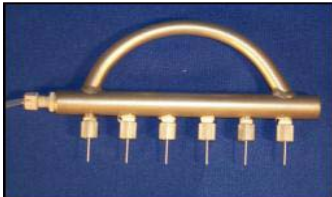



MiniBlock® Individual Items

PART NO.	INDIVIDUAL ITEMS, continued	
13742045 13742009 13742012	Recirculator Manifolds, 2 and 6-Position Allows easy connection of Heat Transfer Blocks to a recirculator. Mounted on the shaking station. Includes quick-disconnect tubes. <input type="checkbox"/> Recirculator Manifold (2-Position, Includes 4 Quick Disconnect Hoses) <input type="checkbox"/> Recirculator Manifold (6-Position, Includes 12 Quick Disconnect Hoses) <input type="checkbox"/> Counter Weight for Shaking Station Provides stability and reduced vibration. For use when a full set of MiniBlocks is not being used on the shaking station.	
13820115 13820116 13100020 13511147	Julabo Temperature Controlled Recirculator Customized recirculator for providing rapid heating & cooling. Requires approximately 15 liters of the appropriate recirculating fluid. Purchase of the Standard Recirculator Hosing/Insulation is recommended. <input type="checkbox"/> Julabo Temperature Controlled Recirculator 220 V, 50 Hz <input type="checkbox"/> Julabo Temperature Controlled Recirculator 220 V, 60 Hz <input type="checkbox"/> Standard Recirculator Hosing / Insulation (-20°C to +100°C) <input type="checkbox"/> 5 Liters Recirculating Fluid, Silicone Based (-20°C to +150°C)	
13742008 13742010 13742067 13260351 13260307 13260515	Collection Devices and Accessories See pages 14 & 15 for collection racks and glassware. <input type="checkbox"/> Vacuum Collection Base For cleavage and collection of reaction products into microplate format racks under vacuum. Includes a white Deep Well Plate Spacer (13260307), a Black Rack Spacer (13260351) and a Collection Tube Height Gauge (13260515). <input type="checkbox"/> Tall Tube Extender: For collection vessels >50mm <input type="checkbox"/> Tall Tube Double Extender: For collection vessels >80mm <input type="checkbox"/> Rack Spacer, Black For collection into 48-position test-tube racks 13260399, 13260398, 13260484 and 13260485 (pages 14 & 15). <input type="checkbox"/> Deep Well Plate Spacer, White For Collection into Deep Well Plates and other racks (pages 14 & 15). <input type="checkbox"/> Collection Tube Height Gauge Qualifies the correct height relationship between the pinch tube and collection vessel.	
13742099 13742098 13742097 13742183 13742182	Inerting/Purging Manifold Inert gas manifold can be operated in continuous purging or static pressure modes. Internal septum prevents evaporative loss and facilitates reagent addition or reaction sampling. Includes quick-disconnect gas fittings with shut off valve, allowing inert atmosphere to be maintained at all times. Automation friendly. Includes 1 (pk) of sealing layer and 1 (pk) of Inner/Piercing septa. <input type="checkbox"/> Inerting/Purging Manifold: 6-Position <input type="checkbox"/> Inerting/Purging Manifold: 12-Position <input type="checkbox"/> Inerting/Purging Manifold: 24-Position <input type="checkbox"/> Inerting/Purging Manifold: 48-Position (Blue)* <input type="checkbox"/> Inerting/Purging Manifold: 48-Position (Red)* <small>* 48-Position Inert Atmosphere Manifolds will be replaced with 48-Position Inerting / Purging Manifolds in Q2, 2003.</small>	

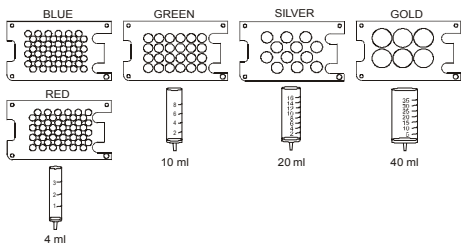

MiniBlock® Individual Items

PART NO.	INDIVIDUAL ITEMS, continued	
13742048 13742049	<p>Inert Atmosphere Manifolds</p> <p>Provides inert atmosphere during reagent addition and reaction set-up for air and moisture sensitive reactions. Each Reaction Tube can be continuously purged with nitrogen or argon. Designed to allow reagent addition by septum piercing. Also used to push reaction products from one MiniBlock to a second MiniBlock containing SPE tubes.</p> <p><input type="checkbox"/> Inert Atmosphere Manifold Blue: 48-Position <input type="checkbox"/> Inert Atmosphere Manifold Red: 48-Position</p>	
13742014 13742120 13742115 13742116	<p>Air Push Assist Device</p> <p>Simple Device that helps drain reaction tubes by applying gentle air pressure</p> <p><input type="checkbox"/> Air Push Assist Device: 48-Position <input type="checkbox"/> Air Push Assist Device: 24-Position <input type="checkbox"/> Air Push Assist Device: 12-Position <input type="checkbox"/> Air Push Assist Device: 6-Position</p>	
13742018 13742019 13742109 13742110	<p>Positive Pressure Manifolds</p> <p>Provides positive pressure to all reaction tubes to assist draining. Also used to push solvents from one MiniBlock to a second MiniBlock containing resins/sorbents.</p> <p><input type="checkbox"/> Positive Pressure Manifold Blue: 48-Position <input type="checkbox"/> Positive Pressure Manifold Red: 48-Position <input type="checkbox"/> Positive Pressure Manifold Blue: 24-Position <input type="checkbox"/> Positive Pressure Manifold Red: 24-Position</p>	
13822001	<p><input type="checkbox"/> 48-Position Resin Dispenser</p> <p>Sliding plate dispensing device for rapid delivery of resins/powders to MiniBlocks. Description and parts:</p> <p>A. 1- Resin Dispenser Base, with Quick Release Pin B. 1- Microtiter / Deep Well Plate Adapter C. 1- Storage Case with Operating Instructions D. 1- Resin Spreader E. 1- Anti-Static Grounding Strap F. 1- Calibration Plate G. 1- Dispensing Plate - 10.0µL, approx. 5mg H. 1- Dispensing Plate - 20.0µL, approx. 10mg J. 1- Dispensing Plate - 40.0µL, approx. 20mg K. 1- Dispensing Plate - 100.0µL, approx. 50mg</p>	
13742084	<p><input type="checkbox"/> High Volume Plate Set: 48-Position</p> <p>L. 1- Dispensing Plate - 150.0µL, approx. 75mg M. 1- Dispensing Plate - 200.0µL, approx. 100mg N. 1- Dispensing Plate - 400.0µL, approx. 200mg</p>	
13742086	<p><input type="checkbox"/> 24-Position Resin Dispenser</p> <p>A. 1- Resin Dispenser Base, 24-Position with Quick Release Pin B. 1- Storage Case with Operating Instructions D. 1- Resin Spreader E. 1- Anti-Static Grounding Strap F. 1- Calibration Plate G. 1- Dispensing Plate - 10.0µL, approx. 5mg H. 1- Dispensing Plate - 20.0µL, approx. 10mg I. 1- Dispensing Plate - 50.0µL, approx. 20mg J. 1- Dispensing Plate - 100.0µL, approx. 50mg K. 1- Dispensing Plate - 200.0µL, approx. 100mg</p>	

MiniBlock® Individual Items

PART NO.	INDIVIDUAL ITEMS, continued	
	Transfer Adapters Allows the transfer of products from one MiniBlock to another. Does not fit over heat transfer block. Also see SPE Consumables (Page 16).	
13742053 13742023 13520120	<input type="checkbox"/> Blue Transfer Adapter <input type="checkbox"/> Red Transfer Adapter <input type="checkbox"/> Replacement Plate for Transfer Adapter	
13742195	<input type="checkbox"/> 6-Position Solvent Dispenser <ul style="list-style-type: none"> Precision solvent dispenser for 48 or 24 position MiniBlocks. Distributes difficult solvents (e.g. cleavage solutions) evenly to 6 reaction vessels simultaneously. Stainless steel and Teflon construction. Adapts to Brinkmann Bottletop dispenser. Uses female 1/4" - 28 adapter (included). 	
13520122	<input type="checkbox"/> Brinkmann Bottletop Dispenser - 50 ml <ul style="list-style-type: none"> Accurately dispenses adjustable volumes (10 to 50 ml) of liquid using single hand-pumping motion. Chemically resistant fluid contact surfaces 28, 33 and 38 mm bottle adapters (included) 	
	Precision Solvent / Reagent Addition Precision 6-Channel pipettor, 15-1250µL per channel. Customized for MiniBlock Spacing. Supplied with a rack of 1250µL pipette tips, 10 solvent reservoirs and a stand. <input type="image"/> Not suitable for all solvents. Please contact a Mettler-Toledo AutoChem specialist.	
13545001 13545002	<input type="checkbox"/> Multi-Channel Electronic Pipettor, 110V <input type="checkbox"/> Multi-Channel Electronic Pipettor, 220V	
	Solvent Dispensers Rapidly dispense liquids into MiniBlocks via 2 precision manifolds. Includes two 48-position manifolds, 50mL bottle-top dispenser, portable stand, priming trays and tubing. Available as 48-Position only	
13742056 13742157 13742156	<input type="checkbox"/> Solvent Dispenser 48-Channel, 1-Red 1-Blue <input type="checkbox"/> Solvent Dispenser 48-Channel, 2-Red <input type="checkbox"/> Solvent Dispenser 48-Channel, 2-Blue	
	Solvent Dispensing Manifolds Same manifolds as described above sold separately.	
13742062 13742063	<input type="checkbox"/> Solvent Dispenser 48-Channel, Blue <input type="checkbox"/> Solvent Dispenser 48-Channel, Red	

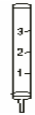
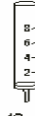
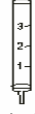
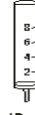


MiniBlock® Conversions and Upgrades

PART NO.	CONVERSIONS / UPGRADES	
	<p>Basic Conversion Kit for MiniBlock</p> <p>Includes two alignment plates, top plate, and red plugs for pinch tube inserts. Requires the applicable reaction vessels (polypropylene or glass). Reaction tubes NOT included.</p>  <p><input checked="" type="checkbox"/> Please Choose From the Following:</p> <p>13820408 <input type="checkbox"/> Basic Conversion Kit: 48-Position Blue (no red plugs included)</p> <p>13820409 <input type="checkbox"/> Basic Conversion Kit: 48-Position Red (no red plugs included)</p> <p>13820410 <input type="checkbox"/> Basic Conversion Kit: 24-Position Red or Blue</p> <p>13820430 <input type="checkbox"/> Basic Conversion Kit: 12-Position Red or Blue</p> <p>13820450 <input type="checkbox"/> Basic Conversion Kit: 6-Position Red or Blue</p> <p>Full Conversion Kit for MiniBlock</p> <p>Includes heat transfer block, 2 alignment plates, top plate, and red plugs for pinch tube inserts. Package includes the applicable reaction vessels, polypropylene or glass.</p> <p>Full Conversion Kit:</p> <p>13820488 <input type="checkbox"/> 48-Position Blue (Polypropylene reaction vessels, no red plugs included)</p> <p>13820489 <input type="checkbox"/> 48-Position Red (Polypropylene reaction vessels, no red plugs included)</p> <p>13200062 <input type="checkbox"/> 24-Position Red or Blue (Polypropylene reaction vessels)</p> <p>13820490 <input type="checkbox"/> 12-Position Red or Blue (Glass reaction vessels)</p> <p>13820510 <input type="checkbox"/> 6-Position Red or Blue (Glass reaction vessels)</p>	

MiniBlock® Consumables

PART NO.	CONSUMABLES					
	Small Consumable Kits					
	<input checked="" type="checkbox"/> Please Choose From the Following:					
	Positions	Reaction Tubes	PFA Pinch Tube Inserts	Multi-Layer Septa	Red Plugs	Compression Cords
13820104	<input type="checkbox"/> 48	400 (polypro) 4.5mL	100	10	N/A	16
13200060	<input type="checkbox"/> 24	200 (polypro) 10mL	100	10	100	16
13820004	<input type="checkbox"/> 12	24 (glass) 20mL	100	10	100	16
13820005	<input type="checkbox"/> 6	12 (glass) 40mL	100	10	100	16
	Large Consumable Kits					
	<input checked="" type="checkbox"/> Please Choose From the Following:					
	Positions	Reaction Tubes	PFA Pinch Tube Inserts	Multi-Layer Septa	Red Plugs	Compression Cords
13820114	<input type="checkbox"/> 48	2000 (polypro) 4.5mL	400	30	N/A	48
13200061	<input type="checkbox"/> 24	1250 (polypro) 10mL	400	30	300	48

MiniBlock® Consumables

PART NO.	CONSUMABLES													
	Reaction Tubes and Related Parts													
	Disposable Reaction Tubes													
13521028	<p>❑ 4.5mL Reaction Tubes, Polypropylene - pk of 50 Fritted 4.5 mL ultra-pure polypropylene reaction tubes for 48-position MiniBlock. Mean frit porosity: 25µm</p> <p>Quantity Discounts The following discounts apply to single orders (No other discounts apply)</p> <table> <tr> <th>Packs</th><th>Quantity</th><th>% Discount</th></tr> <tr> <td>0-100</td><td>0-5000</td><td>0%</td></tr> <tr> <td>101-500</td><td>5001-25,000</td><td>10%</td></tr> <tr> <td>>501</td><td>>25,000</td><td>15%</td></tr> </table>	Packs	Quantity	% Discount	0-100	0-5000	0%	101-500	5001-25,000	10%	>501	>25,000	15%	 <p>4.5 ml</p>
Packs	Quantity	% Discount												
0-100	0-5000	0%												
101-500	5001-25,000	10%												
>501	>25,000	15%												
13521118	<p>❑ 10.0 ML Reaction Tubes, Polypropylene - pk of 25 Fritted 10.0 mL high purity polypropylene reaction tubes for 24-position MiniBlock Mean porosity: 25µm</p> <p>Quantity discounts The following discounts apply to single orders (No other discounts apply)</p> <table> <tr> <th>Packs</th><th>Quantity</th><th>% Discount</th></tr> <tr> <td>0-100</td><td>0-2500</td><td>0%</td></tr> <tr> <td>101-500</td><td>2525-12500</td><td>10%</td></tr> <tr> <td>>500</td><td>>12525</td><td>15%</td></tr> </table>	Packs	Quantity	% Discount	0-100	0-2500	0%	101-500	2525-12500	10%	>500	>12525	15%	 <p>10 ml</p>
Packs	Quantity	% Discount												
0-100	0-2500	0%												
101-500	2525-12500	10%												
>500	>12525	15%												
	Glass Reaction Tubes													
13521058	<p>❑ 4mL Reaction Tubes, Glass - 50/pk Fritted 4 mL borosilicate glass reaction tubes for 48-position MiniBlock.</p>	 <p>4 ml</p>												
13521062	<p>❑ 10mL Reaction Tubes, Glass - 25/pk Fritted 10mL borosilicate glass reaction tubes for 24-position MiniBlock</p>	 <p>10 ml</p>												
13521067	<p>❑ 20mL Reaction Tubes, Glass - 12/pk Fritted 20mL borosilicate glass reaction tubes for 12-position MiniBlock.</p>	 <p>20 ml</p>												
13521071	<p>❑ 40mL Reaction Tubes, Glass - 6/pk Fritted 40mL borosilicate glass reaction tubes for 6-position MiniBlock.</p>	 <p>40 ml</p>												



MiniBlock® Consumables

PART NO.	CONSUMABLES	
13260492	<p>❑ PFA Teflon® Pinch-Tube Insert - 50/pk Newly developed PFA Teflon® female luer fitting with Teflon® pinch-tube. Provides added chemical resistance (particularly to Toluene) and better tolerance to high temperatures* than polypropylene fittings.</p> <p>⚠ * For temperatures >80°C, other high temperature components must also be used. Contact a Mettler-Toledo AutoChem specialist for more information.</p>	
13742093	<p>❑ Molded Compression Cord - 8/pk Improved material and larger diameter for better performance. Each MiniBlock contains 8 compression cords in the valve mechanism.</p>	
13260310	<p>❑ Encapsulated Compression Cord - 8/pk PTFE coated cord for sealing pinch-tube inserts. Each MiniBlock contains 8 compression cords in the valve mechanism.</p>	
13520117	<p>❑ Red Plug for Pinch-Tube Insert - 50/pk For sealing unused positions in MiniBlock base</p>	
13521079	<p>❑ Replacement Frits for 4.5mL Reaction Tubes - 100/pk Medium porosity (20 µm) frits for 4.5mL polypropylene reaction tubes (13521028)</p>	
13820122	<p>❑ Tool Kit 1 Valve Key, 1 Spare Hex-key, 1 Reaction Tube Removal Tool, 1 Pair Pliers</p>	

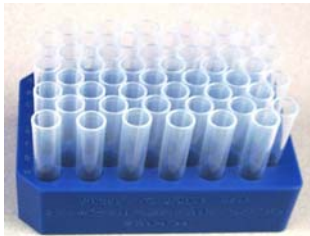



MiniBlock® Consumables

PART NO.	CONSUMABLES	
13820118	Septa for Top Plate Multi-Layer Septum for Top Plate (-40°C to 80°C) - 5/pk Newly developed composite septa consisting of pure natural rubber (for easy piercing and re-sealing), expanded polyethylene (for minimizing solvent loss), and Teflon® layer (for chemical resistance). Includes loading mat and instructions.	
13260381	Laminated Rubber Septum for Top Plate - 5/pk Ultra-pure natural rubber, Teflon® laminated on the under side	
13260303	Rubber Septum for Top Plate - 5/pk Ultra Pure Rubber	
13260330	Teflon® Liner for Septa for Top Plate - 5/pk For use with natural rubber septa	
13742152	Septa/Gaskets for Inerting /Purging Manifolds <ul style="list-style-type: none"> Disposable septa ensure reaction vessel sealing and facilitate ready manual or automated access Purging Manifold requires both Inner/Piercing septa and Sealing Gasket Inner/Piercing Septa Ultra pure Natural Rubber Septa for Inerting/Purging Manifold	
13742169	Inner/Piercing Septa: 6-Position (pk of 5)	
13742170	Inner/Piercing Septa: 12-Position (pk of 5)	
13200080	Inner/Piercing Septa: 24-Position (pk of 5) Inner/Piercing Septa: 48-Position (pk of 5)* Natural Rubber Sealing Gasket for Vessels Ultra-Pure Natural Rubber Used to firmly seal reaction vessels against the inerting/purging manifold	
13742153	Sealing Gasket: 6-Position (pk of 5)	
13742154	Sealing Gasket: 12-Position (pk of 5)	
13742155	Sealing Gasket: 24-Position (pk of 5)	
13200079	Sealing Gasket: 48-position (pk of 5)* *Available in Q2, 2003	
13742202	Inerting/Purging Manifold Multi-Layered Sealing Gaskets for Vessels Newly developed composite septa consisting of pure natural rubber (for easy piercing and re-sealing), expanded polyethylene (for minimizing solvent loss), and Teflon® layer (for chemical resistance). Superior air exclusion to maintain inert atmosphere. Not for use with vacuum/purge cycle inerting.	
13742203	Multi-Layered Sealing Gasket: 6-Position (pk of 5)	
13742204	Multi-Layered Sealing Gasket: 12-Position (pk of 5)	
13200081	Multi-Layered Sealing Gasket: 24-Position (pk of 5) Multi-Layered Sealing Gasket: 48-Position (pk of 5)* * Available in Q2, 2003	
13742083	Multi-Layer Septum for Inert Atmosphere Manifold (-40°C to 80°C) - 1 each Newly developed composite septa, punched for the manifold needles. Easy to pierce layers allow use on most liquid handlers. <i>Please Note: This Manifold has been replaced with the new inerting/ purging manifold for 6, 12 and 24-Position MiniBlock Applications. (See Page 7)</i>	
13260631	Gasket for Inert Atmosphere Manifold - 1 each Improves the performance of original inert atmosphere manifolds (1374208/9, 13742130-4, 13742140) by sealing the inner chamber.	
13260397	Sealing Gasket for Positive Pressure Manifold - 1 each Punched, ultra-pure natural rubber	



MiniBlock® Collection Options

PART NO.	COLLECTION OPTIONS	
	Polypropylene Plates / Minitubes	
13520111	<input type="checkbox"/> Rack of Tall Minitubes - 1 each 96 position microtiter plate array 2.5 mL volume, 9 mm D x 80 mm H.	
13520112	<input type="checkbox"/> Rack of Minitubes - 1 each 96 position microtiter plate array 1.3 mL volume, 9 mm D x 47 mm H.	
13520130	<input type="checkbox"/> Deep Well Plate, 2.4mL - 5/pk 96 position microtiter plate format.	
13520131	<input type="checkbox"/> Deep Well Plate, 5mL - 5/pk 48 position microtiter plate format.	
13520132	<input type="checkbox"/> Deep Well Plate, 10mL - 5/pk 24 position microtiter plate format.	
		

MiniBlock® Collection Options

PART NO.	COLLECTION OPTIONS	
	48 Position Racks Accepts 12x75 and 12x100 mm test tubes. Maximum volumes are 6mL and 8mL. (Labware not included.)	
13260399	<input type="checkbox"/> Blue, 48 Position: UHMW (polyethylene)	
13260398	<input type="checkbox"/> Red, 48 Position: UHMW (polyethylene)	
13260484	<input type="checkbox"/> Blue, 48 Position: Aluminum	
13260485	<input type="checkbox"/> Red, 48 Position: Aluminum	
	24 Position Racks Accepts 15x45 and 15x82 mm vials. Maximum volumes are 3.7mL (1 dram), and 6mL. (Labware not included.)	
13260444	<input type="checkbox"/> Blue, 24 Position: UHMW (polyethylene)	
13260443	<input type="checkbox"/> Red, 24 Position: UHMW (polyethylene)	
13260472	<input type="checkbox"/> Blue, 24 Position: Aluminum	
13260473	<input type="checkbox"/> Red, 24 Position: Aluminum	
	24 Position Racks Accepts 17x61 and 17x112mm vials. Maximum volumes are 7.5mL (2 dram) and 14mL. (Labware not included.)	
13260430	<input type="checkbox"/> Blue, 24 Position: UHMW (polyethylene)	
13260429	<input type="checkbox"/> Red, 24 Position: UHMW (polyethylene)	
13260474	<input type="checkbox"/> Blue, 24 Position: Aluminum	
13260475	<input type="checkbox"/> Red, 24 Position: Aluminum	
	24 Position Racks Accepts 16x100 mm test tubes. Maximum volume is 15mL. (Labware not included.)	
13260456	<input type="checkbox"/> Blue, 24 Position: UHMW (polyethylene)	
13260457	<input type="checkbox"/> Red, 24 Position: UHMW (polyethylene)	
13260486	<input type="checkbox"/> Blue, 24 Position: Aluminum	
13260487	<input type="checkbox"/> Red, 24 Position: Aluminum	

MiniBlock® Collection Options

PART NO.	COLLECTION OPTIONS	
13260432 13260431 13260476 13260477	12 Position Racks Accepts 21x70 and 21x112 mm test tubes. Maximum volumes are 15mL and 23mL. (Labware not included.)	
	<input type="checkbox"/> Blue, 12 Position: UHMW (polyethylene) <input type="checkbox"/> Red, 12 Position: UHMW (polyethylene) <input type="checkbox"/> Blue, 12 Position: Aluminum <input type="checkbox"/> Red, 12 Position: Aluminum	
	12 Position Racks Accepts 24x112 and 24x150 mm test tubes. Maximum volumes are 38mL, and 45mL. (Labware not included.)	
	<input type="checkbox"/> Blue, 12 Position: UHMW (polyethylene) <input type="checkbox"/> Red, 12 Position: UHMW (polyethylene) <input type="checkbox"/> Blue, 12 Position: Aluminum <input type="checkbox"/> Red, 12 Position: Aluminum	
	<input type="checkbox"/> Blue, 12 Position: UHMW (polyethylene) <input type="checkbox"/> Red, 12 Position: UHMW (polyethylene) <input type="checkbox"/> Blue, 12 Position: Aluminum <input type="checkbox"/> Red, 12 Position: Aluminum	
13260440 13260439 13260480 13260481	6 Position Racks Accepts 28x95 and 28x140 mm scintillation vials. Maximum volumes are 40mL, and 60mL. (Labware not included.)	
	<input type="checkbox"/> Blue, 6 Position: UHMW (polyethylene) <input type="checkbox"/> Red, 6 Position: UHMW (polyethylene) <input type="checkbox"/> Blue, 6 Position: Aluminum <input type="checkbox"/> Red, 6 Position: Aluminum	
	<input type="checkbox"/> Blue, 6 Position: UHMW (polyethylene) <input type="checkbox"/> Red, 6 Position: UHMW (polyethylene) <input type="checkbox"/> Blue, 6 Position: Aluminum <input type="checkbox"/> Red, 6 Position: Aluminum	
	<input type="checkbox"/> Blue, 6 Position: UHMW (polyethylene) <input type="checkbox"/> Red, 6 Position: UHMW (polyethylene) <input type="checkbox"/> Blue, 6 Position: Aluminum <input type="checkbox"/> Red, 6 Position: Aluminum	
	<input type="checkbox"/> Blue, 6 Position: UHMW (polyethylene) <input type="checkbox"/> Red, 6 Position: UHMW (polyethylene) <input type="checkbox"/> Blue, 6 Position: Aluminum <input type="checkbox"/> Red, 6 Position: Aluminum	







MiniBlock® Collection Options

PART NO.	GLASSWARE FOR COLLECTION RACKS	
	Collection Vessels	
13520111	<input type="checkbox"/> Rack of Tall 2.5 mL Polypropylene MiniTubes 9 x 80 mm - 1 each	
13521100	<input type="checkbox"/> Glass, 6mL Tube 12 x 75 mm - pk of 72	
13521101	<input type="checkbox"/> Polypropylene, 6mL Test Tube 12 x 75 mm - pk of 250	
13521103	<input type="checkbox"/> Glass, 3.7 mL (1-dram) Vial 15 x 45 mm - pk of 144	
13521105	<input type="checkbox"/> Glass, 7.5mL (2-dram) Vial 17 x 61 mm - pk of 72	
13521107	<input type="checkbox"/> Glass, 15mL Test Tube 16 x 100 mm - pk of 144	
13521108	<input type="checkbox"/> Glass, 15mL (4-dram) Vial 21 x 70 mm - pk of 144	
13521114	<input type="checkbox"/> Glass 55mL Scintillation Vial 28 x 135 mm - pk of 50	

MiniBlock® User Manual

PART NO.	USER MANUAL
13602001 iss 2 Mar02	<input type="checkbox"/> MiniBlock User Manual Hard Copy Version
13000005	<input type="checkbox"/> MiniBlock User Manual CD Version

MiniBlock® SPE Accessories and Consumables

PART NO.	SPE ACCESSORIES AND CONSUMABLES	
	<p>New Disposable SPE Plates</p> <p>New SPE offering enables rapid SPE purification for MiniBlocks. The color-coded plates contain 48 tubes and are disposable. Sorbent loading capacity of 500mg allows purification of more compound in less time. (Requires SPE Manifolds, 13742089 Red, or 13742090 Blue).</p> <ul style="list-style-type: none"> ❖ Convenient Disposable Pre-Loaded SPE Plates, 48 tubes per plate ❖ Largest Commercially Available Capacity, 500mg ❖ Full Compatibility with MiniBlock Reactors <p>SPE Plates</p> <p>13511216 ❑ SCX (500mg) SPE Tubes on Red Plate (48/Plate) Exchange Capacity 0.6-0.9 mequiv/g</p> <p>13511217 ❑ SCX (500mg) SPE Tubes on Blue Plate (48/Plate) Exchange Capacity 0.6-0.9 mequiv/g</p> <p>13511219 ❑ Silica Gel (500mg) SPE Tubes on Red Plate (48/Plate)</p> <p>13511220 ❑ Silica Gel (500mg) SPE Tubes on Blue Plate (48/Plate)</p> <p>13511222 ❑ SAX (500mg) SPE Tubes on Red Plate (48/Plate) Exchange Capacity 0.7-0.9 mequiv/g</p> <p>13511223 ❑ SAX (500mg) SPE Tubes on Blue Plate (48/Plate) Exchange Capacity 0.7-0.9 mequiv/g</p> <p>13511225 ❑ C18 (500mg) SPE Tubes on Red Plate (48/Plate) Carbon Content 17-19%</p> <p>13511226 ❑ C18 (500mg) SPE Tubes on Blue Plate (48/Plate) Carbon Content 17-19%</p> <p>13511228 ❑ Diatomaceous Earth (500 mg) SPE Tubes on Red Plate</p> <p>13511229 ❑ Diatomaceous Earth (500 mg) SPE Tubes on Blue Plate</p> <p>Do Not See What You're Looking For?</p> <p>⚠ Other cartridge packing options are also available. Please contact your Mettler-Toledo AutoChem sales representative for more information.</p> <p>SPE Tubes Without Plates, 48 per Bag</p> <p>Loose SPE tubes available for use with same color MiniBlocks</p> <p>13511218 ❑ SCX (500mg) SPE Tubes, Exchange Capacity 0.6-0.9 mequiv/g</p> <p>13511221 ❑ Silica Gel (500mg) SPE Tubes</p> <p>13511224 ❑ SAX (500mg) SPE Tubes, Exchange Capacity 0.7-0.9 mequiv/g</p> <p>13511227 ❑ C18 (500mg) SPE Tubes, Carbon Content 17-19%</p> <p>13511230 ❑ Diatomaceous Earth (500 mg) SPE Tubes</p> <p>SPE Manifolds</p> <p>Positions on top of the Vacuum collection base. Placing a MiniBlock on top of the manifold enables filtration from either a Red or Blue MiniBlock.</p> <p><i>Please note: The same color MiniBlock, SPE Plate, Manifold and Collection Rack must be used to ensure proper operation.</i></p> <p>13742089 ❑ Red SPE Manifold</p> <p>13742090 ❑ Blue SPE Manifold</p>	     

Service and Warranties**Ordering Information:**

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